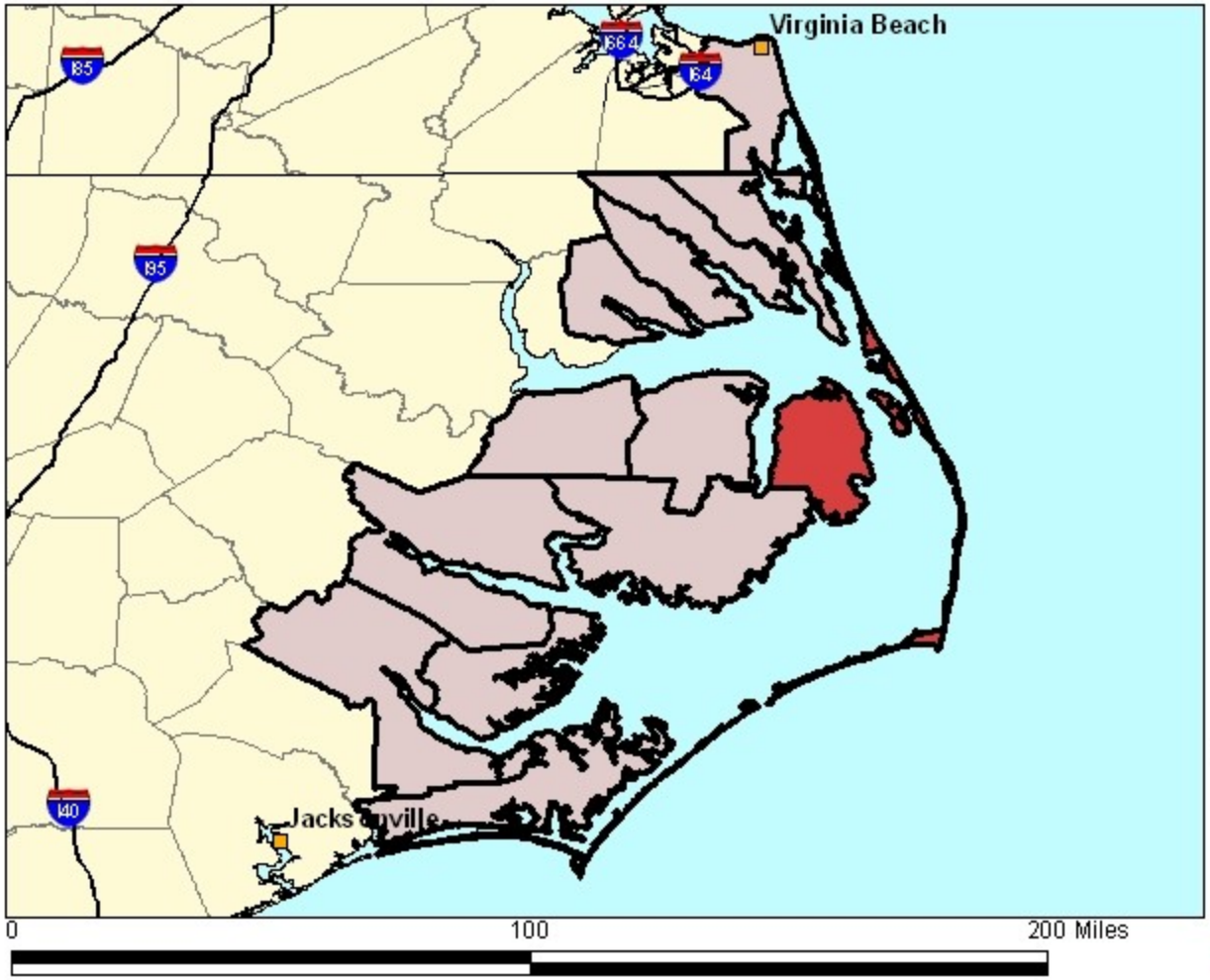
US Army Corps of Engineers

# Hurricane Exercise Debris Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**




### *Post Landfall Debris Model Results*

North Carolina - 823,000 Yards

*Model results per county on following page*

This model is based on a Category 3 storm making landfall near Cape Hatteras, NC.

**Debris**

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 3 storm making landfall near Cape Hatteras, NC. These projections are based on information from the NHC (1500 EDT 06/06/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Exercise Debris Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1530 EDT 06/06/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 1 of 12 |

US Army Corps of Engineers

# Hurricane Exercise Debris Model

## Landfall Expected In About 4 Hours

**For Official Use Only!**

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| North Carolina | | Beaufort | < 1,000 |
| | | Camden | 4,000 |
| | | Carteret | 40,000 |
| | | Craven | 3,000 |
| | | Currituck | 30,000 |
| | | Dare | 693,000 |
| | | Hyde | 36,000 |
| | | Pamlico | 3,000 |
| | | Pasquotank | 3,000 |
| | | Perquimans | < 1,000 |
| | | Tyrrell | 11,000 |
| | | Washington | < 1,000 |
| North Carolina | 823,000 | | |
| | | | |
| Virginia | | Virginia Beach | < 1,000 |
| Virginia | | | |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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or contact ENGLink at 1-877-936-4546

**Hurricane Exercise Debris Model**

**Generated By:**
Siemsen, LRL 1530 EDT 06/06/2007

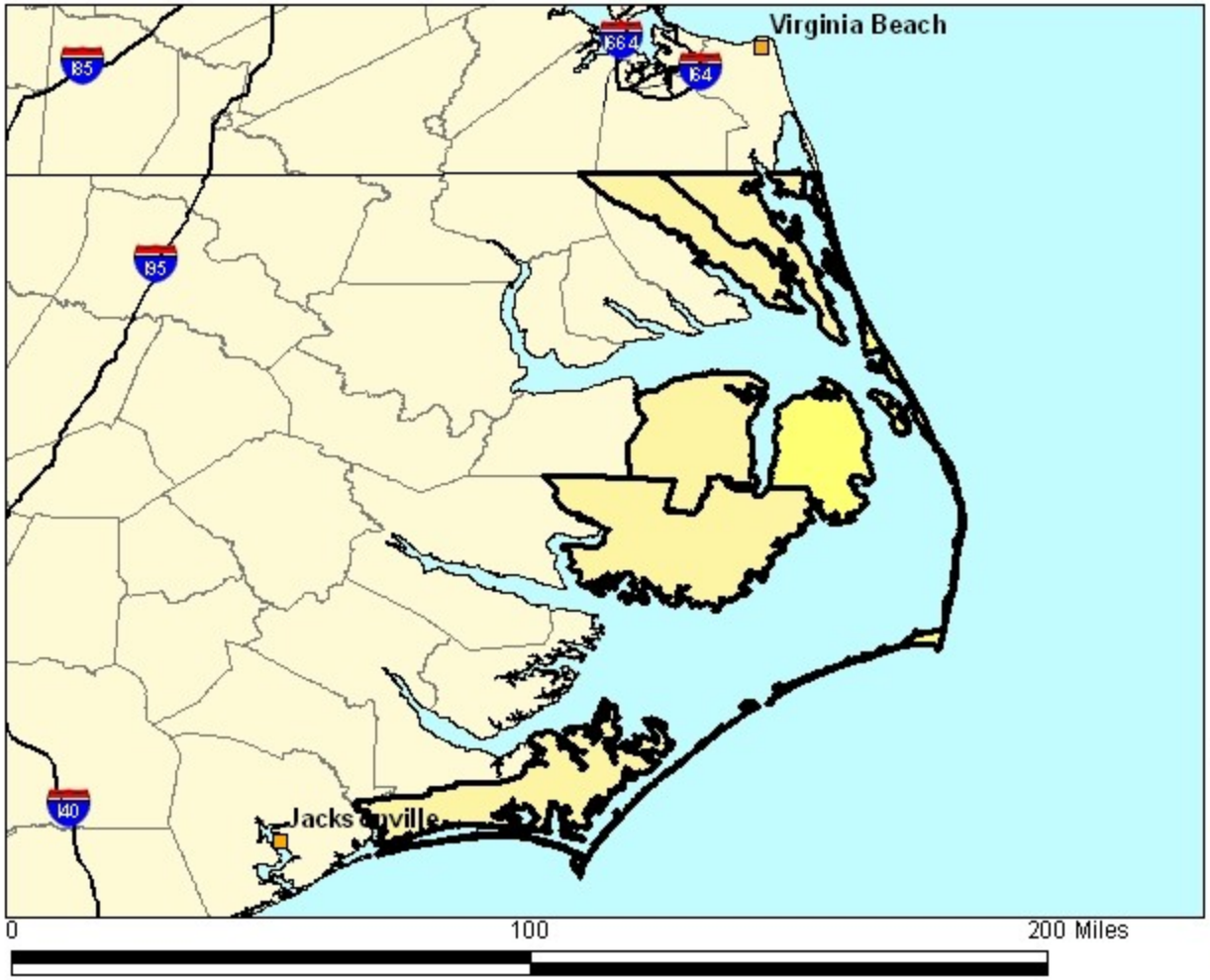
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Exercise Population Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**




### *Post Landfall Population Model Results*

North Carolina - 55,000

*Model results per county on following page*

This model is based on a Category 3 storm making landfall near Cape Hatteras, NC.

**Population**

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 3 storm making landfall near Cape Hatteras, NC. These projections are based on information from the NHC (1500 EDT 06/06/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Exercise Population Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1530 EDT 06/06/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 3 of 12 |

US Army Corps of Engineers

# Hurricane Exercise Population Model

## Landfall Expected In About 4 Hours

**For Official Use Only!**

| State | Population per State | County | Population per County |
|---|---|---|---|
| North Carolina | | Camden | < 1,000 |
| | | Carteret | 7,000 |
| | | Currituck | 7,000 |
| | | Dare | 34,000 |
| | | Hyde | 4,000 |
| | | Tyrrell | 3,000 |
| North Carolina | 55,000 | | |

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

**Hurricane Exercise Population Model**

**Generated By:**
Siemsen, LRL 1530 EDT 06/06/2007

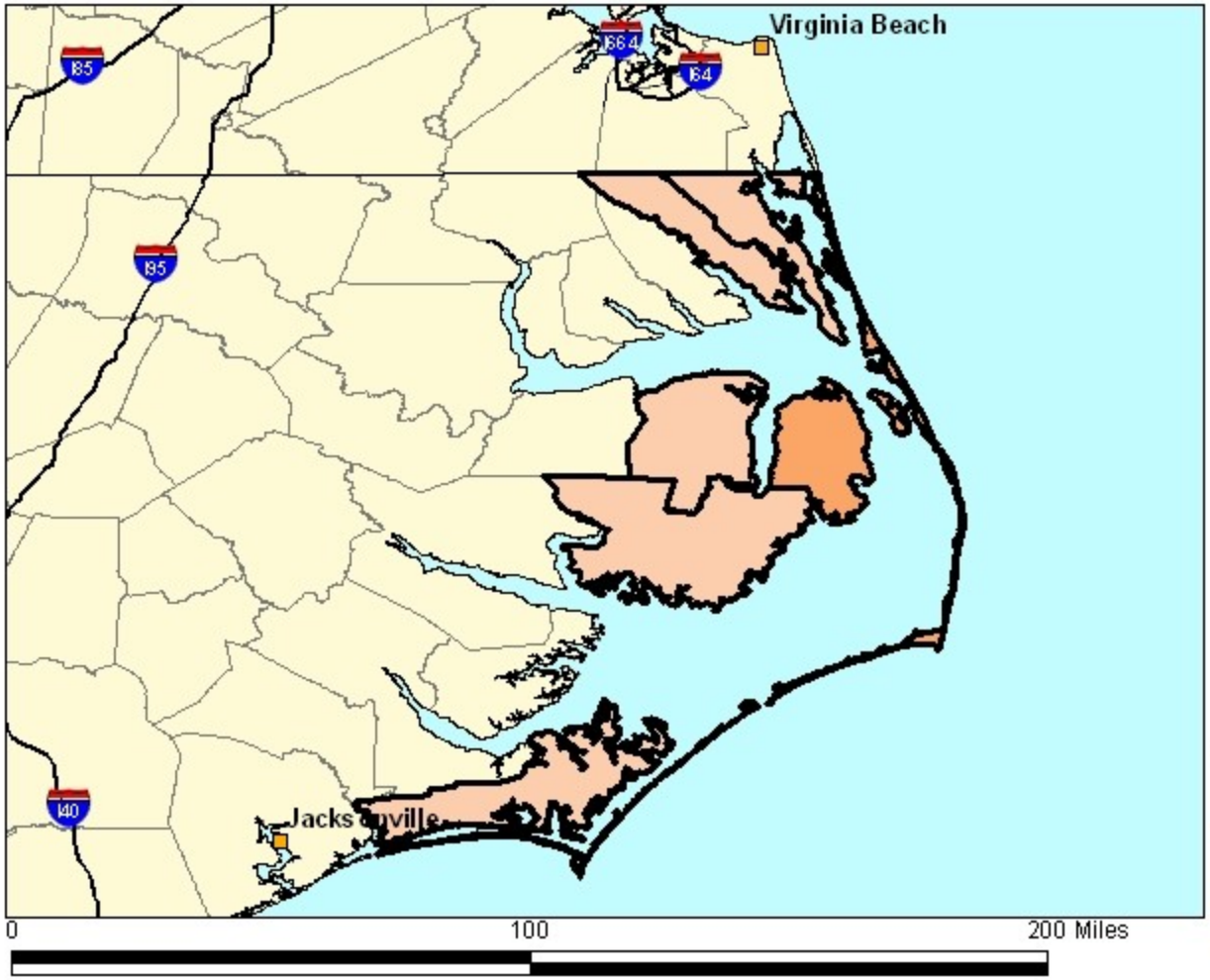
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Exercise Households Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**




### *Post Landfall Households Model Results*

North Carolina - 23,000

*Model results per county on following page*

This model is based on a Category 3 storm making landfall near Cape Hatteras, NC.

**Households**

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 3 storm making landfall near Cape Hatteras, NC. These projections are based on information from the NHC (1500 EDT 06/06/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Exercise Households Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1530 EDT 06/06/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 5 of 12 |

US Army Corps of Engineers

# Hurricane Exercise Households Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**

| State | Households per State | County | Households per County |
|---|---|---|---|
| North Carolina | | Camden | < 1,000 |
| | | Carteret | 3,000 |
| | | Currituck | 3,000 |
| | | Dare | 15,000 |
| | | Hyde | 2,000 |
| | | Tyrrell | < 1,000 |
| North Carolina | 23,000 | | |

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

**Hurricane Exercise Households Model**

**Generated By:**
Siemsen, LRL 1530 EDT 06/06/2007

**Sources:**
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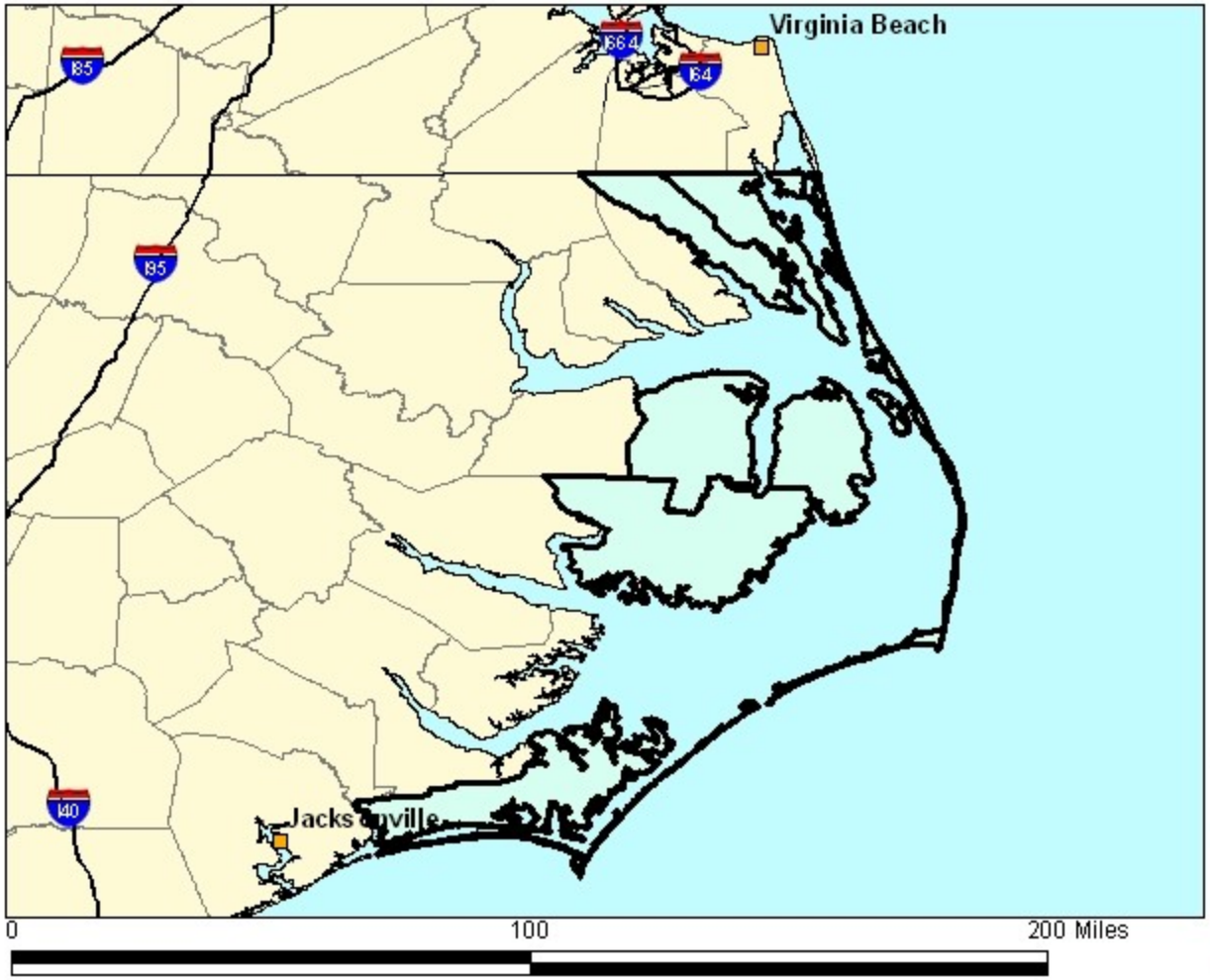
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane Exercise Commodities Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**




### *Post Landfall Ice/Water Model Results*

**Day One / Day Two / Day Three**
NC – 2/4/8 Truckloads Each

*Model results per county on following page*

This model is based on a Category 3 storm making landfall near Cape Hatteras, NC.

**Commodities**

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 3 storm making landfall near Cape Hatteras, NC. These projections are based on information from the NHC ***(1500 EDT 06/06/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating. Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

| Hurricane Exercise Commodities Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1530 EDT 06/06/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 7 of 12 |

US Army Corps of Engineers

# Hurricane Exercise Commodities Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| North Carolina | | Camden | 1 |
| | | Carteret | 1 |
| | | Currituck | 1 |
| | | Dare | 3 |
| | | Hyde | 1 |
| | | Tyrrell | 1 |
| North Carolina | 8 | | |

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

**Hurricane Exercise Commodities Model**

**Generated By:**
Siemsen, LRL 1530 EDT 06/06/2007

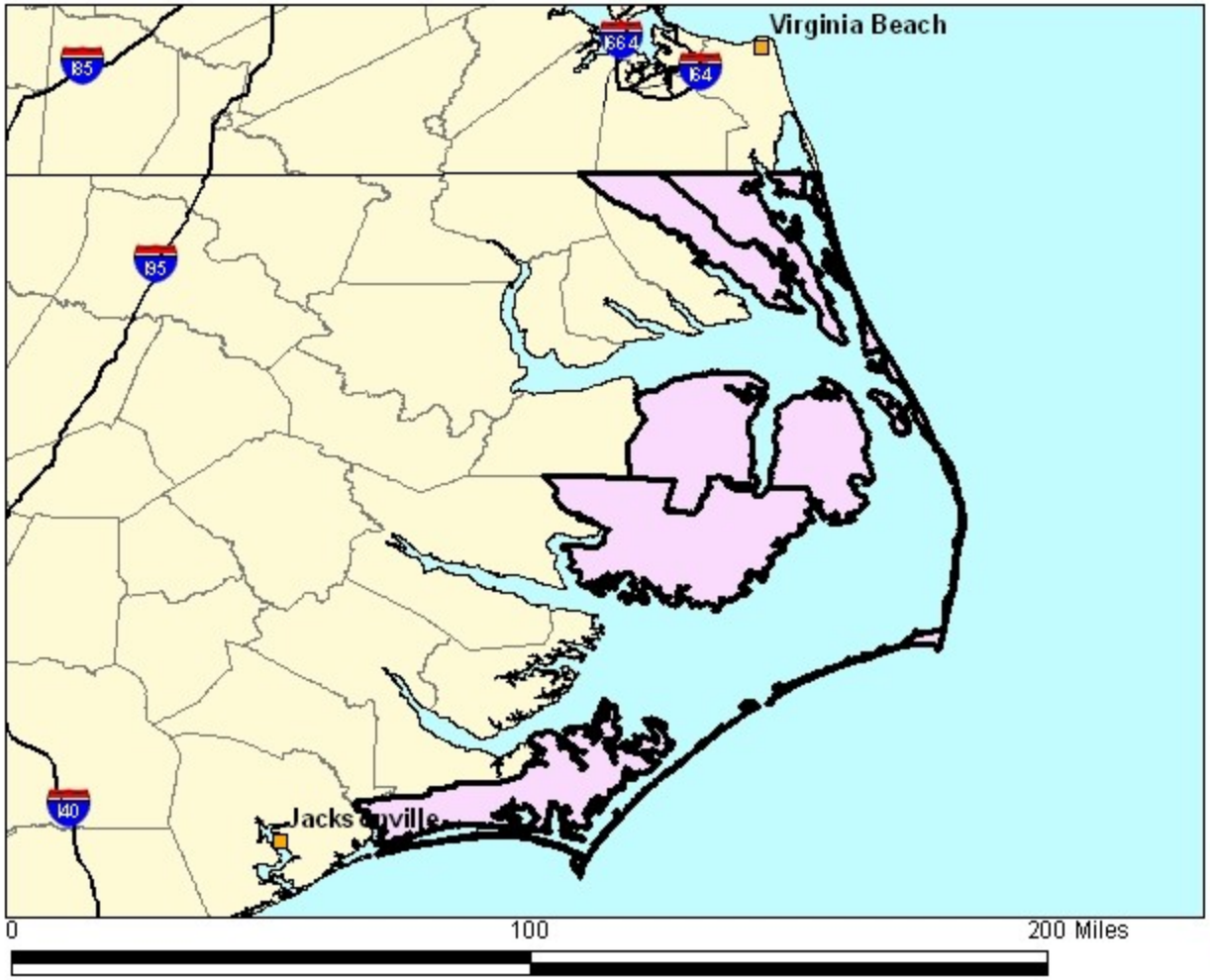
**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Exercise Temporary Housing Model

US Army Corps of Engineers

## Landfall Expected In About **4** Hours

**For Official Use Only!**




### *Post Landfall Temporary Housing Model Results*

North Carolina - 700

*Model results per county on following page*

This model is based on a Category 3 storm making landfall near Cape Hatteras, NC.

**Temporary Housing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Cape Hatteras, NC. These projections are based on information from the NHC (1500 EDT 06/06/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Exercise Housing Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1530 EDT 06/06/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 9 of 12 |

US Army Corps of Engineers

# Hurricane Exercise Temporary Housing Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**

| State | per State | County | per County |
|---|---|---|---|
| North Carolina | | Camden | < 100 |
| | | Carteret | < 100 |
| | | Currituck | < 100 |
| | | Dare | 700 |
| | | Hyde | < 100 |
| | | Tyrrell | < 100 |
| North Carolina | 700 | | |

**THIS IS AN EXPERIMENTAL MODEL!!**

Temporary housing is based on 1% in CAT 1, 3% in CAT 2 and 5% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

**Hurricane Exercise Housing Model**

**Generated By:**
Siemsen, LRL 1530 EDT 06/06/2007

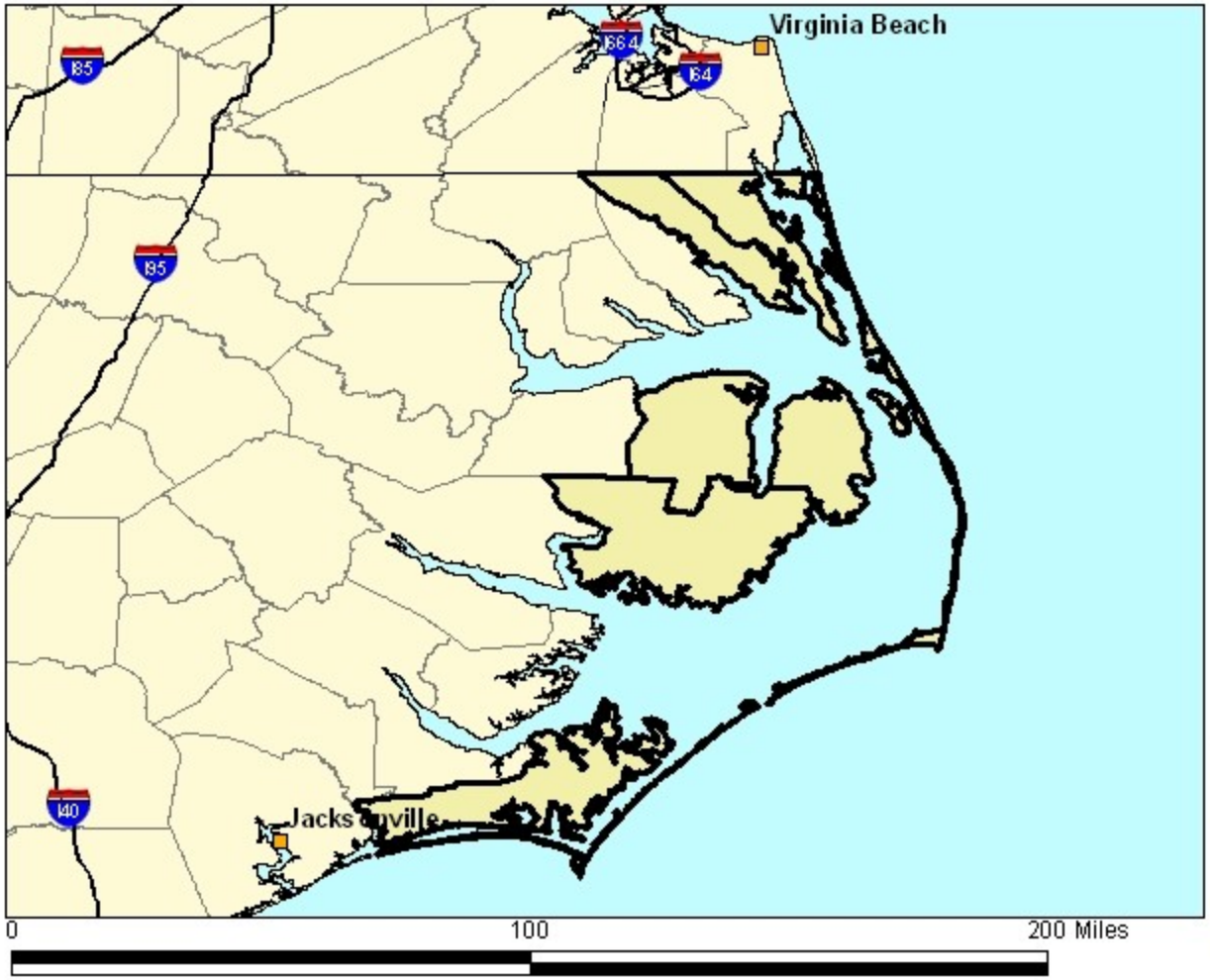
**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Exercise Temporary Roofing Model

US Army Corps of Engineers

## Landfall Expected In About **4** Hours

**For Official Use Only!**




### *Post Landfall Temporary Roofing Model Results*

North Carolina - 1,700

*Model results per county on following page*

This model is based on a Category 3 storm making landfall near Cape Hatteras, NC.

**Temporary Roofing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 3 storm making landfall near Cape Hatteras, NC. These projections are based on information from the NHC (1500 EDT 06/06/2007) forecast. Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 10% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

| Hurricane Exercise Roofing Model | |
|---|---|
| **Generated By:** Siemsen, LRL 1530 EDT 06/06/2007 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 11 of 12 |

US Army Corps of Engineers

# Hurricane Exercise Temporary Roofing Model

## Landfall Expected In About **4** Hours

**For Official Use Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| North Carolina | | Camden | < 100 |
| | | Carteret | < 100 |
| | | Currituck | < 100 |
| | | Dare | 1,700 |
| | | Hyde | < 100 |
| | | Tyrrell | < 100 |
| North Carolina | 1,700 | | |

**THIS IS AN EXPERIMENTAL MODEL!!**

Temporary roofing is based on 2% in CAT 1, 6% in CAT 2 and 10% in CAT 3.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

**Hurricane Exercise Roofing Model**

**Generated By:**
Siemsen, LRL 1530 EDT 06/06/2007

**Sources:**
HURREVAC
LRL-DEBRIS